

PATENT ABSTRACTS OF JAPAN

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(54) FLAME-RETARDANT ADHESIVE

(57)Abstract:

PURPOSE: To improve flame retardancy and heat resistance by compounding a thermoplastic high-molecular weight polyester with a brominated phosphoric ester and an inorg. filler.

CONSTITUTION: 100 pts.wt. thermoplastic high-molecular weight polyester is compounded with 20-150 pts.wt. brominated phosphoric ester and 1-50 pts.wt. inorg. filler. The polyester is produced by the polycondensation of a dicarboxylic acid (e.g. terephthalic acid) with a diol (e.g. ethylene glycol) and has a mol.wt. of 10,000-30,000. An example of the phosphoric ester is tris(dibromophenyl) phosphate. An example of the filler is calcium carbonate, pref. having an average particle size of about 1 μ m or lower. Regardless of the shape of the adhesive, its flame retardance and heat resistance are improved by the exposure to a radiation such as an electron beam or γ -ray. The dose of the radiation is usually 50-300kGy, though varied by various factors.

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